# Contents of Volume 164

**Research Articles**


N.V.C. Polunin and D.W. Klumpp (UK, Australia)
Algal food supply and grazer demand in a very productive coral-reef zone 1

V. Brock (Denmark)
Effects of mercury on the biosynthesis of porphyrins in bivalve molluscs (*Cerastoderma edule* (L.) and *C. lamarcki* (Reeve)) 17

A.E. Stiven (USA)
Genetic structure in a population of the ribbed mussel *Geukensia demissa* (Dillwyn) in a North Carolina salt marsh tidal gradient 31

J.R. Buchheim and M.A. Hixon (USA)
Competition for shelter holes in the coral-reef fish *Acanthemblemaria spinosa* Metzelaar 45

L.J. Walters (USA)
Post-settlement success of the arborescent bryozoan *Bugula neritina* (L.): the importance of structural complexity 55

G.C. Trager, D. Coughlin, A. Genin, Y. Achituv and A. Gangopadhyay (Israel, Canada, USA)
Foraging to the rhythm of ocean waves: porcelain crabs and barnacles synchronize feeding motions with flow oscillations 73

T.R. McClanahan and N.A. Muthiga (Kenya)
Comparative sampling methods for subtidal epibenthic gastropods 87

E. Spanier and G. Almog-Shtayer (Israel)
Shelter preferences in the Mediterranean slipper lobster: effects of physical properties 103

V. Stuart and J.A. Huggett (South Africa)
Prey selection by *Euphausia lucens* (Hansen) and feeding behaviour in response to a mixed algal and animal diet 117

R.M. O'Riordan, A.A. Myers and T.F. Cross (Ireland)
Brooding in the intertidal barnacles *Chthamalus stellatus* (Poli) and *Chthamalus montagui* Southward in south-western Ireland 135


**Research Articles**


R.F. Dame, J.D. Spurrier and R.G. Zingmark (USA)
In situ metabolism of an oyster reef 147

I. Takeuchi and R. Hirano (Japan)
Duration and size of embryos in epifaunal amphipods *Caprella danilevskii* Czerniavski and *C. okadai* Arimoto (Crustacea: Amphipoda: Caprellidea) 161

K.G. Johnson (USA)
Population dynamics of a free-living coral: recruitment, growth and survivorship of *Manicina areolata* (Linnaeus) on the Caribbean coast of Panama 171

B. Orihuela, H. Díaz, R.B. Forward Jr. and D. Rittschof (Venezuela, USA)
Orientation of the hermit crab *Clibanarius vittatus* (Bosc) to visual cues: effects of mollusc chemical cues 193

P.M. Alino, J.C. Coll and P.W. Sammarco (Australia)
Toxic prey discrimination in a highly specialized predator *Chaetodon melannotus* (Block et Schneider): visual vs. chemical cues 209

S. Gamito and D. Raffaelli (UK)
The sensitivity of several ordination methods to sample replication in benthic surveys 221

D.J. Morrisey, A.J. Underwood, L. Howitt and J.S. Stark (Australia)
Temporal variation in soft-sediment benthos 233

S.A. Shepherd, D. Lowe and D. Partington (Australia)
Studies on southern Australian abalone (genus *Haliotis*) XIII: larval dispersal and recruitment 247

M.A. St. John, P.J. Harrison and T.R. Parsons (Denmark, Canada)
Tidal wake-mixing: localized effects on primary production and zooplankton distributions in the Strait of Georgia, British Columbia 261

**Book Reviews**

*Encyclopedia of marine sciences*, edited by J.G. Baretta-Bekker, E.K. Duursma and B.R. Kuipers, reviewed by D.S. McLusky 275

*Frontiers of shrimp research*, edited by P.F. DeLoach, W.J. Dougherty and M.A. Davidson, reviewed by W. Dall 276

*Marine shrimp culture: principles and practices*, edited by A.W. Fast and L.J. Lester, reviewed by D.A. Jones 278

*Scallops: biology, ecology and aquaculture*, edited by S.E. Shumway, reviewed by C.A. Richardson 280

Author Index of Volume 164 283

Contents of Volume 164 285